

## (12) 按照专利合作条约所公布的国际申请

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(81) 指定国(国家): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

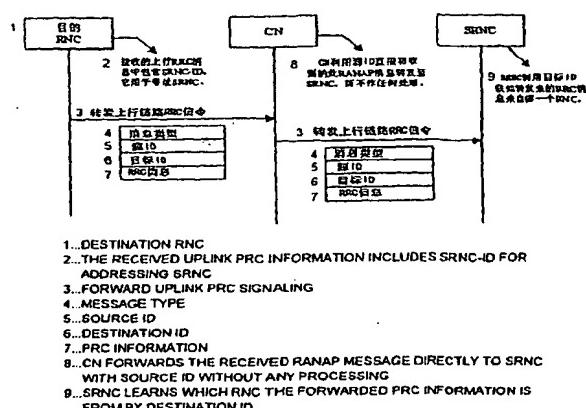
(84) 指定国(地区): ARIPO 专利(GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚专利(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲专利(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI 专利(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

本国际公布:  
— 包括国际检索报告。

所引用双字母代码和其它缩写符号, 请参考刊登在每期PCT公报期刊起始的“代码及缩写符号简要说明”。

(54) Title: METHOD FOR USER EQUIPMENT MOBILITY MANAGEMENT AND COMMUNICATION SYSTEM  
THEREOF

(54) 发明名称: 用于用户设备移动性管理的方法及其通信系统



(57) Abstract: The present invention relates to a method of UE mobility management and a mobile communication system of implementing this method, where the system includes: the core network communicating with the universal terrestrial radio access network (UTRAN); UTRAN consisting of multiple radio network systems (RNS) and communicating with one or more UE via Uu interface, and each said RNS comprising a radio network controller (RNC) and one or more nodes communicating with said RNC via Iub interface, while communicating between RNC via Iur interface; UTRAN controlling UE mobility management through radio resource control (RRC) signaling of Uu interface; and said method includes: UE transmitting uplink RRC signaling information to request UE mobility management; the first RNC receiving and forwarding said uplink RRC signaling information to the core network; the core network forwarding pellucidly said uplink RRC signaling information; the second RNC receiving and utilizing said uplink RRC signaling information to perform required mobility management.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN 03/00238

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: H04Q7/38

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: H04Q7/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CNPAT: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC,WPI,PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN1399856A (TELEFONAKTIEBOLAGET ERICSSON L M) 26.Feb. 2003 (26.02.03) See page 3, 4, 6, 7 of description and Fig.6	1-14
A	CN1348666A (NOKIA MOBILE PHONES LTD) 08.May 2002 (08.05.02) See page 13—16 of description	1-14
A	CN1385046A (TELEFONAKTIEBOLAGET ERICSSON L M) 11 Dec. 2002 (11.12.02) See page 6-10,14 of description	1-14

Further documents are listed in the continuation of Box C.  See patent family annex.

\* Special categories of cited documents:

- “A” document defining the general state of the art which is not considered to be of particular relevance
- “E” earlier application or patent but published on or after the international filing date
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- “O” document referring to an oral disclosure, use, exhibition or other means
- “P” document published prior to the international filing date but later than the priority date claimed

“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

“&” document member of the same patent family

Date of the actual completion of the international search  20 May. 2003(20.05.03)	Date of mailing of the international search report  19 JUN 2003 (19.06.03)
Name and mailing address of the ISA/CN  6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451	Authorized officer  GENG XIAOFANG Telephone No. 86-10-62093786  

**INTERNATIONAL SEARCH REPORT**  
Information patent family members

Search request No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
CN1399856A	26.02.03	AU2156101A	04.06.01
		WO0139534 A	31.05.01
		GB2356770A	30.05.01
CN1348666A	08.05.02	EP1090519A	11.04.01
		AU4554499A	05.01.00
		WO9966740A	23.12.99
CN1385046A	11.12.02	AU1425201A	08.05.01
		WO0131940A	03.05.01